

Title (en)

INTEGRATED AMMONIA AND SULFURIC ACID PRODUCTION PLANT AND PROCESS

Title (de)

INTEGRIERTE AMMONIAK- UND SCHWEFELSÄUREPRODUKTIONSANLAGE UND VERFAHREN

Title (fr)

INSTALLATION ET PROCÉDÉ INTÉGRÉS DE PRODUCTION D'AMMONIAC ET D'ACIDE SULFURIQUE

Publication

EP 4072995 A1 20221019 (EN)

Application

EP 19836389 A 20191213

Priority

US 2019066262 W 20191213

Abstract (en)

[origin: WO2021118599A1] Integrated plants and associated processes for producing ammonia and sulfuric acid have been developed comprising air separation and water electrolysis subsystems and which make surprisingly efficient use of the products from these subsystems (i.e. oxygen and nitrogen from the former and hydrogen and oxygen from the latter). The invention is particularly suitable for use as part of an integrated fertilizer production plant.

IPC 8 full level

C01B 17/76 (2006.01); **C01B 17/80** (2006.01); **C01B 21/087** (2006.01); **C01B 25/22** (2006.01); **C01B 25/28** (2006.01); **C01C 1/04** (2006.01); **C02F 1/44** (2006.01); **C05B 7/00** (2006.01); **C25B 1/04** (2021.01)

CPC (source: EP US)

B01D 53/1481 (2013.01 - US); **B01D 53/18** (2013.01 - US); **B01J 8/065** (2013.01 - US); **B01J 8/067** (2013.01 - US); **B01J 19/2445** (2013.01 - US); **B01J 19/245** (2013.01 - US); **C01B 17/54** (2013.01 - US); **C01B 17/76** (2013.01 - EP); **C01B 17/7655** (2013.01 - US); **C01B 17/80** (2013.01 - EP); **C01B 21/0433** (2013.01 - US); **C01B 21/087** (2013.01 - EP); **C01B 25/22** (2013.01 - EP); **C01B 25/28** (2013.01 - EP); **C01C 1/0405** (2013.01 - EP); **C01C 1/0417** (2013.01 - US); **C02F 1/16** (2013.01 - US); **C05B 1/06** (2013.01 - EP); **C05B 7/00** (2013.01 - EP); **C05B 11/08** (2013.01 - US); **C05C 3/00** (2013.01 - US); **C05G 1/00** (2013.01 - US); **C25B 1/04** (2013.01 - EP); **C25B 15/08** (2013.01 - EP); **F25J 3/04527** (2013.01 - EP US); **F25J 3/04587** (2013.01 - EP US); **F25J 3/04636** (2013.01 - EP); **B01D 2252/103** (2013.01 - US); **C01B 2210/0009** (2013.01 - US); **C01B 2210/0045** (2013.01 - US); **C02F 1/04** (2013.01 - EP); **C02F 1/461** (2013.01 - EP); **C02F 2103/08** (2013.01 - EP US); **C02F 2303/10** (2013.01 - US); **F25J 2205/86** (2013.01 - EP); **F25J 2245/50** (2013.01 - EP); **Y02E 60/36** (2013.01 - EP); **Y02P 20/52** (2015.11 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

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